Interagency Digital Library for Science & Engineering (IDLSE) Proof of Concept

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Agenda

- **Functional Overview**
  - **Goals**
  - **Lessons Learned**
  - **Next Steps**
- **Technical Overview**
  - **Architecture**
  - **User Interface**
  - **Future Enhancements**

The **CENDI Consortium** is an interagency working

group composed of senior Scientific and Technical

Information (STI) managers from ten major programs in

nine U.S. Federal Agencies.

http://www.dtic.mil/cendi

NASA &
National Libraries of Agriculture, Education and Medicine

Defense

Defense Technical Information Center

National Air Intelligence Center

Energy

Office of Scientific and Technical Information

Environmental Protection Agency

CENDI GOALS

- **Coordination and Leadership**
- **Joint Projec**
- **Information Literacy**

Commerce

National Technical Information Service

Interior

U.S Geological Survey, Biological Resources Division

IDLSE Goals

- **Improve cooperation as an Enterprise**
- **Elimination of duplicate data**
- **Improved support for government researchers**

Competing Capabilities

- **Spiders/canned indexes - Not realtime**
- **Duplicating content – Not efficient**
- **WAIS searching – Application dependent**
- **Z39.50 searching - Protocol dependent**
- **Customized APIs - No password capability**

Value-Added of Broadsword

- **Password capability**
- **Well defined architecture - fully documented**
- **Security auditing - Air Force certified**
- **User customization/profiling**
- **Automated admin and security tools**
- **Saved Queries**
- **Batch Queries**

IDLSE Participants/Sources

- **Defense Technical Information Center**
  - **Technical Reports Database (www.dtic.mil/stinet/)**
- **Office of Scientific & Technical Information, Department of Energy**
  - **R&D Summaries (www.doe.gov/rnd/dbhome.html)**
  - **InfoBridge (www.doe.gov/bridge/home.html)**
- **Department of Education**
  - **Educational Resources Information Center (ERIC) (www.ed.gov/databases/ERIC_Digests/index/)**
- **National Air Intelligence Center**

IDLSE Status

- **Updated to version 2.0 of Broadsword software**
- **Customized screens for CENDI**
- **Separate CENDI GateKeeper - SPARC 20/Solaris 2.5.1/Apache 12.6 webserver**
- **15 agency test accounts created**
- **All plug-ins are working (DOE Info Bridge, DOE R&D Summaries, Education's ERIC, and DTIC's Tech Reports)**

Lessons Learned

- **Communication/Collaboration**
- **Interagency Differences**
- **Technical Issues**

Communication/Collaboration

- Get agency buy-in
- Effective communication/collaboration within diverse group
- Successfully interpret broad guidance
  - Who are the users?
  - What are the relevant sources?
- One voice to represent consortium

Interagency Differences

- **Interface must represent consortium, not individual agencies (e.g. DoD system warning)**
- **Where does interface stop and agency system begin? (e.g. common shopping cart or individual agency shopping cart)**
- **Consistency of interface for agency sources that present data differently (e.g. Text Box button on hitlist)**

Clicking on Text Box

- **DTIC - goes to the shopping cart screen**
- **DOE InfoBridge - goes to the full record**
- **Education - goes to the abstract which has link to order form**
- **DOE R&D - goes to PDF summary document**

Technical Issues

- **Element mapping across agencies/sources**
- **Need for individual agency test accounts**
- **Learning curve**
- **What is working versus what is not working**
- **Incompatibility of technologies**
- **Feed CENDI requirements into User's Group**
- **How much Help is enough? (e.g. date searching is different among agencies)**

Date Searching

- Data range format as specified on search form
- Each plug-in interprets format differently
  - DTIC - exact date range
  - Education/DOE R&D - start date year
  - DOE InfoBridge - start and end date years are used as wild card years and OR'ed together
- Now working for all sources

Next Steps

- **Connecting directly to source indexes**
- **DTIC/DOE investigate running GateKeeper**
- **In-depth agency testing/prototype refinement**
- **Generation of additional requirements**
- **Add enhancements**
  - **Relevance ranking normalization**
  - **Query expansion**
- **CENDI Planning Meeting in August**